AMENDMENTS TO THE CLAIMS

Please amend Claim 45 and add new claims 60 - 65 as shown below:

- 1. (Withdrawn) A polypeptide fragment capable of raising a specific T-cell response, said fragment comprising a peptide selected from the group consisting of: rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcpicrapv (SEQ ID NO:298), vleppgardv (SEQ ID NO:301), and functional equivalents having at least 75% sequence identity thereto; wherein said polypeptide fragment comprises at the most 15 amino acids.
- 2. (Withdrawn) The polypeptide fragment according to claim 1, wherein said functional equivalent comprises either:
 - substitutions only in the preferred positions and only to preferred amino acid residues for a given HLA allele as identified in table 2 or,
 - at the most 10 amino acids.
 - 3. (Cancelled)
- 4. (Withdrawn) The polypeptide fragment according to claim 1, wherein the specific T-cell response is measured as more than 50 peptide specific spots per 10⁶ cells in an ELISPOT assay performed either:
 - without pre-stimulation in vitro or,
 - after stimulation in vitro or,
 - using PBL from an individual that has not been subjected to immune therapy against a neoplastic disease.
 - 5-6. (Cancelled)
- 7. (Withdrawn) The polypeptide fragment according to claim 1, wherein the polypeptide fragment is characterised by having a C_{50} value, measured as the concentration (μ M) of the polypeptide fragment required for half maximal binding to a MHC (Major Histocompatibility Complex) class I molecule, of less than 1000.
 - 8-11. (Cancelled)
- 12. (Withdrawn) A polypeptide fragment according to claim 1, wherein the fragment is capable of activating T-cell growth in vitro.

- 13. (Cancelled)
- 14. (Withdrawn) A method of selecting a peptide comprising a fragment of ML-IAP for use in a vaccine composition comprising the steps of:
 - i) providing an individual who has not been subjected to immune therapy,
 - ii) providing a polypeptide fragment comprising a peptide consisting of at least 9 consecutive amino acid residues of ML-IAP (SEQ ID NO: 1),
 - iii) testing specific T-cell responses against fragments of ML-IAP in said individual,
 - iv) selecting fragments of ML-IAP wherein said T-cell response corresponds to or is better than a predetermined selection criterium.
- 15. (Withdrawn) The method according to claim 14, wherein said peptide is selected from the group consisting of: rlqeertck (SEQ ID NO:245), qilgqlrpl (SEQ ID NO:55), ltaevppel (SEQ ID NO:100), gmgseelrl (SEQ ID NO:84), elptprrev (SEQ ID NO:200), rlqeertckv (SEQ ID NO:297), qlcpicrapv (SEQ ID NO:298), llrskgrdfv (SEQ ID NO:300), vleppgardv (SEQ ID NO:301), pltaevppel (SEQ ID NO:302), and functional equivalents having at least 75% sequence identity thereto.
- 16. (Withdrawn) The method according to claim 15, wherein said polypeptide fragment comprises at the most 15 amino acids.
 - 17. (Cancelled)
- 18. (Withdrawn) The method according to claim 14, wherein said predetermined selection criterium is more than 50 peptide specific spots per 10⁶ cells in said ELISPOT assay.
- 19. (Withdrawn) A medicament for treating a clinical condition in an individual in need thereof, comprising a polypeptide fragment according to claim 1.
- 20. (Withdrawn) A method of treatment of a clinical condition in an individual in need thereof comprising administering a medicament comprising one or more polypeptide fragments according to claim 1.
- 21. (Withdrawn) The method according to claim 20, wherein said clinical condition is:
 - cancer or,
 - malignant melanoma or,
 - an auto-immune disease.

- 22 23. (Cancelled)
- 24. (Withdrawn) The method according to claim 20, wherein at least one of said polypeptide fragments is restricted to an HLA molecule present in said individual.
 - 25 26. (Cancelled)
- 27. (Withdrawn) A vaccine composition comprising at least one isolated polypeptide comprising a-at least one peptide selected from the group consisting of; rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcpicrapv (SEQ ID NO:298), vleppgardv (SEQ ID NO:301), and functional equivalents having at least 75% sequence identity thereto; and a pharmaceutically acceptable carrier and/or adjuvant.
 - 28 29. (Cancelled)
- 30. (Withdrawn) The vaccine composition according to claim 27 comprising an adjuvant, wherein the adjuvant is selected from the group consisting of Montanide IAS-51 and QS-21.
 - 31. (Cancelled)
- 32. (Withdrawn) The vaccine composition according to claim 27 comprising a carrier, wherein the carrier is a dendritic cell.
- 33. (Withdrawn) The vaccine compositions according to claim 27, wherein the composition comprises more than one different ML-IAP fragment according to claim 1.
 - 34. (Cancelled)
- 35. (Withdrawn) The vaccine composition according to claim 33, wherein the composition comprises:
 - at least 2 different ML-IAP fragments each capable of associating with a different HLA molecule selected from the group consisting of HLA-A2, HLA-A1, HLA-A3, HLA-A24, HLA-B7, HLA-B27, and HLA-B44 or,
 - at least one class I-restricted ML-AIP peptide and at least one class II-restricted ML-IAP peptide.
 - 36. (Cancelled)
- 37. (Withdrawn) A pharmaceutical composition comprising the vaccine composition according to claim 27 and an anti-cancer medicament.
 - 38. (Cancelled)

39. (Withdrawn) A kit of parts comprising at least one polypeptide comprising a-at least one peptide selected from the group consisting of: rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcpicrapv (SEQ ID NO:298), vleppgardv (SEQ ID NO:301) and functional equivalents having at least 75% sequence identity thereto; and a bioactive compound selected from the group consisting of: a chemotherapeutic agent, an immunotherapeutic agent, and a second cancer vaccine composition.

- 40. (Cancelled)
- 41. (Withdrawn) A method for treatment or prophylactic treatment of an individual diagnosed with cancer or at risk of developing a cancer, said method comprising the step of administering to the individual;
 - the polypeptide fragment according to claims 1,
 - or a vaccine composition comprising at least one isolated polypeptide comprising a at least one peptide selected from the group consisting of rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcpicrapv (SEQ ID NO:298), vleppgardv (SEQ ID NO:301) and functional equivalents having at least 75% sequence identity thereto; and a pharmaceutically acceptable carrier and/or adjuvant,
 - or said vaccine comprising an anti-cancer medicament,
 - or a kit of parts comprising at least one polypeptide comprising a at least one peptide selected from the group consisting of rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcpicrapv (SEQ ID NO:298), vleppgardv (SEQ ID NO:301) and functional equivalents having at least 75% sequence identity thereto; and a bioactive compound selected from the group consisting of a chemotherapeutic agent, an immunotherapeutic agent, and a second cancer vaccine composition.

42 - 44. (Cancelled)

45. (Currently amended) A method for raising a specific T-cell response against an epitope of ML-IAP (SEQ ID NO:1) in an individual, said method comprising the steps of administering to the individual a polypeptide fragment capable of raising a specific T-cell response, said-fragment polypeptide comprising a peptide selected from the group consisting of; rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcpicrapv (SEQ ID NO:298), vleppgardv (SEQ ID NO:301), and functional equivalents having at least 75% sequence identity

thereto; wherein said polypeptide-fragment comprises at the most 15 amino acids, and raising a specific T-cell response against an epitope of ML-IAP in the individual.

- 46. (Cancelled)
- 47. (Withdrawn) An antibody capable of specific recognition of a polypeptide fragment according to claim 1.
- 48. (Withdrawn) A method for activating and expanding T-cells specific for ML-IAP or fragments thereof comprising the steps of co-cultivating T-cells and one or more polypeptide fragments according to claim 1.
- 49. (Withdrawn) The method according to claim 48, wherein the method comprises: generating and loading monocyte-derived dendritic cells (DC) with said polypeptide fragment(s) and co-cultivating said DC and peripheral perifiral blood monocytes (PBMC) comprising T-cells or, generating *Drosophila melanogaster* cells expressing one or more different HLA molecules, loading said *Drosophila melanogaster* cells with said polypeptide fragment(s) and co-cultivating said *Drosophila* cells with peripheral perifiral blood monocytes (PBMC) comprising T-cells or T-cells purified from PBMC.
 - 50. (Cancelled)
- 51. (Withdrawn) ML-IAP specific T-cells obtained by the method according to claim 48.
 - 52. (Cancelled)
- 53. (Withdrawn) A method of treatment of a clinical condition in an individual in need thereof, comprising administering a medicament comprising ML-IAP specific T-cells according to claim 51.
- 54. (Previously presented) The method of Claim 45, wherein said fragment comprises the peptide riquertck (SEQ ID NO: 245).
- 55. (Previously presented) The method of Claim 45, wherein said fragment comprises the peptide rlqeertckv (SEQ ID NO: 297).
- 56. (Previously presented) The method of Claim 45, wherein said fragment comprises the peptide qlcpicrapy (SEQ ID NO: 298).
- 57. (Previously presented) The method of Claim 45, wherein said fragment comprises the peptide vleppgardv (SEQ ID NO: 301).

58. (Previously presented) The method of Claim 45, further comprising administering an adjuvant to the individual.

- 59. (Previously presented) The method of Claim 58, wherein the adjuvant is Montanide IAS-51 or OS-21.
- 60. (New) The method of claim 45, wherein said polypeptide comprises a peptide selected from the group consisting of: rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcvicrapv (SEQ ID NO:298) and vleppgardv (SEQ ID NO:301).
- 61. (New) The method of claim 45, wherein said polypeptide comprises a functional equivalent having at least 75% sequence identity to a peptide selected from the group consisting of: rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcvicrapv (SEQ ID NO:298) vleppgardv (SEQ ID NO:301), wherein said functional equivalent having at least 75% identity thereto contains one or more conservative amino acid substitutions.
- 62. (New) The method of claim 45, wherein said polypeptide comprises a functional equivalents having at least 85% sequence identity to a peptide selected from the group consisting of: rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcvicrapv (SEQ ID NO:298) vleppgardv (SEQ ID NO:301).
- 63. (New) The method of claim 45, wherein said polypeptide comprises a functional equivalent to a peptide selected from the group consisting of: rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcvicrapv (SEQ ID NO:298) vleppgardv (SEQ ID NO:301), wherein said functional equivalent has more than one conserved amino acid substitution.
- 64. (New) The method of claim 45, wherein said polypeptide comprises a functional equivalent to a peptide selected from the group consisting of: rlqeertck (SEQ ID NO:245), rlqeertckv (SEQ ID NO:297), qlcvicrapv (SEQ ID NO:298) vleppgardv (SEQ ID NO:301), wherein said functional equivalent has one conserved amino acid substitution.
- 65. (New) The method of claim 45, wherein said polypeptide comprises a functional equivalent to a peptide selected from the group consisting of: rlqeertck (SEQ ID NO:245), rlqeertcky (SEQ ID NO:297), glcvicrapy (SEQ ID NO:298) vleppgardy (SEO ID NO:301).

wherein said functional equivalent having at least 75% identity thereto is expected to increase or maintain the affinity of said polypeptide for a specific HLA.